

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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In re Divisional Patent Application of  
U.S. Appl. No.: 09/466,969:

Yoshiharu NAKAJIMA et al.

Examiner: Xiao Min Wu

Application No.: Not Yet Assigned

Art Unit: 2674

Filed: December 15, 2003

For: **DIGITAL/ANALOG CONVERTER CIRCUIT, LEVEL SHIFT CIRCUIT, SHIFT REGISTER UTILIZING LEVEL SHIFT CIRCUIT SAMPLING LATCH CIRCUIT, LATCH CIRCUIT, AND LIQUID CRYSTAL DISPLAY DEVICE INCORPORATING THE SAME**

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**INFORMATION DISCLOSURE STATEMENT (IDS)**

**MS PATENT APPLICATION**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Submitted herewith on Form PTO/SB/08A is a listing of documents known to Applicant cited by or submitted to the U.S. Patent and Trademark Office (USPTO) in parent application No. 09/466,969; filed on December 20, 1999 in order to comply with Applicant's duty of disclosure pursuant to 37 CFR §1.56. The relevance of these documents are explained in the parent application. As provided in 37 CFR 1.98(d), copies of the document are not provided since they were previously cited by or submitted to the Patent Office in the parent application.

Since this Information Disclosure Statement is being filed in compliance with 37 CFR § 1.97(b) before an initial action, no fee is required in connection with its filing.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicant does not waive any rights to take any action, which would be appropriate to antedate or otherwise remove as a

competent reference any document, which is determined to be a *prima facie* prior art reference against the claims of the present application.

Applicant respectfully requests that the listed documents be considered by the Examiner and formally be made of record in the present application and that an initialed copy of Form PTO/SB/08A be returned in accordance with MPEP §609.

Dated: December 15, 2003

Respectfully submitted,

By

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Substitute for form 1449A/B/PTO				<b>Complete if Known</b>	
				Application Number	Not Yet Assigned (Divisional of U.S. Appl. No.: 09/466,969)
				Filing Date	December 15, 2003
				First Named Inventor	Yoshiharu NAKAJIMA
				Art Unit	2674
				Examiner Name	Xiao Min Wu
Sheet	1	of	1	Attorney Docket Number	SON-1697/DIV

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
AA**	US-4,733,105		03/1998	Shin et al.	
AB**	US-5,047,669		09/1991	Iwamura et al.	
AC**	US-5,559,526		09/1996	Mitsuharu Izawa	
AD**	US-5,798,746		08/1998	Jun Koyama	
AE**	US-5,850,204		12/1998	Toshikazu Maekawa	
AF**	US-6,275,210		08/2001	Toshikazu Maekawa	
AG**	US-6,448,953		09/2002	Masao Murade	
AH**	US-5,818,406		10-06-1998	Tsuchi	
AI**	US-5,828,357		10-27-1998	Tamai	
AJ**	US-5,880,064		10-21-1997	Masaki et al.	
AK**	US-5,457,420		10-10-1995	Asada	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)			
BA**	EP-515 191		11-25-1992		
BB**	WO-98/28731		07-02-1998		✓
BC**	DE-43 31 542-A1		03-24-1994		
BD**	EP-0 438 927-A2		07-31-1991		✓
BE**	EP-06090161		03-29-1994		✓
BF**	EP-63093219		04-23-1988		✓

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \*\*CITE NO.: Those patent(s) or publication(s) which are marked with an double asterisk (\*\*) next to the Cite No. are not supplied because they were previously cited by or submitted to the Office in a prior application relied upon in this application for an earlier filing date under 35 U.S.C. 120. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
	CA**	European Search Report			

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \*\*CITE NO.: Those patent(s) or publication(s) which are marked with an double asterisk (\*\*) next to the Cite No. are not supplied because they were previously cited by or submitted to the Office in a prior application relied upon in this application for an earlier filing date under 35 U.S.C. 120.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	Date Considered
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